



PTO/SB/21 (09-04)

1753  
JFW**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

|                        |                       |
|------------------------|-----------------------|
| Application Number     | 09/928,590            |
| Filing Date            | August 13, 2001       |
| First Named Inventor   | Charles F. Spence     |
| Art Unit               | 1753                  |
| Examiner Name          | Jeffrey Thomas Barton |
| Attorney Docket Number | 20174C-000620US       |

**ENCLOSURES (Check all that apply)**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>SB/08<br>129 References<br>Return Postcard |
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Remarks

The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

|              |                                    |          |        |
|--------------|------------------------------------|----------|--------|
| Firm Name    | Townsend and Townsend and Crew LLP |          |        |
| Signature    |                                    |          |        |
| Printed name | Patrick M. Boucher                 |          |        |
| Date         | February 21, 2006                  | Reg. No. | 44,037 |

**CERTIFICATE OF TRANSMISSION/MAILING**

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Typed or printed name

Janet L. Newmaker

Date

February 21, 2006

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

On February 21, 2006

TOWNSEND and TOWNSEND and CREW LLP

By: Janet L. Newmaker  
Janet L. Newmaker

PATENT

Attorney Docket No.: 20174C-000620US

Client Reference Nos.: CIT 2820-CIP-D  
and C105.320.US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Charles F. Spence et al.

Application No.: 09/928,590

Filed: August 13, 2001

For: Microfabricated Cell Sorter

Customer No.: 20350

Confirmation No.: 7906

Examiner: Jeffrey Thomas Barton

Art Unit: 1753

**SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97 AND 1.98**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached forms PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references (in compliance with the requirements of 37 CFR §1.98(a)(2)) are enclosed.

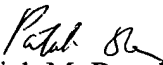
It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

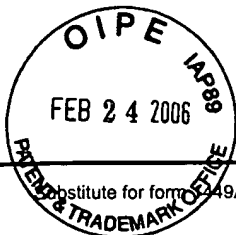
Applicants believe that no fee is required for submission of this statement. If a fee is required, however, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: February 21, 2006

  
Patrick M. Boucher  
Reg. No. 44,037

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
San Francisco, CA 94111-3834  
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PMB/jln  
60706960 v1



PTO/SB/08A (07-05)

|                                                                                                                                   |   |                          |                       |                        |                 |
|-----------------------------------------------------------------------------------------------------------------------------------|---|--------------------------|-----------------------|------------------------|-----------------|
| Substitute for form PTO 349A/PTO<br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(Use as many sheets as necessary) |   | <b>Complete if Known</b> |                       |                        |                 |
|                                                                                                                                   |   | Application Number       | 09/928,590            |                        |                 |
|                                                                                                                                   |   | Filing Date              | August 13, 2001       |                        |                 |
|                                                                                                                                   |   | First Named Inventor     | Charles F. Spence     |                        |                 |
|                                                                                                                                   |   | Art Unit                 | 1753                  |                        |                 |
|                                                                                                                                   |   | Examiner Name            | Jeffrey Thomas Barton |                        |                 |
| Sheet                                                                                                                             | 1 | of                       | 13                    | Attorney Docket Number | 20174C-000620US |

| U.S. PATENT DOCUMENTS |                          |                                          |                                |                                                    |                                                                                 |
|-----------------------|--------------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                       | A1                       | US-3,570,515                             | 03-16-1971                     | Kinner                                             |                                                                                 |
|                       | A2                       | US-3,747,628                             | 07-24-1973                     | Holster et al.                                     |                                                                                 |
|                       | A3                       | US-4,046,159                             | 09-06-1977                     | Pegourie                                           |                                                                                 |
|                       | A4                       | US-4,119,368                             | 10-10-1978                     | Yamakazi                                           |                                                                                 |
|                       | A5                       | US-4,153,855                             | 05-08-1979                     | Feingold                                           |                                                                                 |
|                       | A6                       | US-4,245,673                             | 01-20-1981                     | Bouteille et al.                                   |                                                                                 |
|                       | A7                       | US-4,434,704                             | 03-06-1984                     | Surjaatmadja                                       |                                                                                 |
|                       | A8                       | US-4,898,582                             | 02-06-1990                     | Faste                                              |                                                                                 |
|                       | A9                       | US-4,992,312                             | 02-12-1991                     | Frisch                                             |                                                                                 |
|                       | A10                      | US-5,085,562                             | 02-04-1992                     | Van Lintel                                         |                                                                                 |
|                       | A11                      | US-5,088,515                             | 02-18-1992                     | Kamen                                              |                                                                                 |
|                       | A12                      | US-5,096,388                             | 03-17-1992                     | Weinberg                                           |                                                                                 |
|                       | A13                      | US-5,126,115                             | 06-30-1992                     | Fujita et al.                                      |                                                                                 |
|                       | A14                      | US-5,143,854                             | 09-01-1992                     | Pirrung et al.                                     |                                                                                 |
|                       | A15                      | US-5,164,558                             | 11-17-1992                     | Huff et al.                                        |                                                                                 |
|                       | A16                      | US-5,171,132                             | 12-15-1992                     | Miyazaki                                           |                                                                                 |
|                       | A17                      | US-5,224,843                             | 07-06-1993                     | Van Lintel                                         |                                                                                 |
|                       | A18                      | US-5,259,737                             | 11-09-1993                     | Kamisuki et al.                                    |                                                                                 |
|                       | A19                      | US-5,265,327                             | 11-30-1993                     | Faris et al.                                       |                                                                                 |
|                       | A20                      | US-5,290,240                             | 03-01-1994                     | Horres, Jr.                                        |                                                                                 |
|                       | A21                      | US-5,336,062                             | 08-09-1994                     | Richter                                            |                                                                                 |
|                       | A22                      | US-5,346,372                             | 09-13-1994                     | Naruse et al.                                      |                                                                                 |
|                       | A23                      | US-5,375,979                             | 12-27-1994                     | Trah                                               |                                                                                 |
|                       | A24                      | US-5,400,741                             | 03-28-1995                     | DeTitta et al.                                     |                                                                                 |
|                       | A25                      | US-5,423,287                             | 06-13-1995                     | Usami et al.                                       |                                                                                 |

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| Examiner<br>Signature |  | Date<br>Considered |  |
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

|                                                                                                                                               |   |    |                          |                        |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---|----|--------------------------|------------------------|-----------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    | <b>Complete if Known</b> |                        |                 |
|                                                                                                                                               |   |    | Application Number       | 09/928,590             |                 |
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|                                                                                                                                               |   |    | Art Unit                 | 1753                   |                 |
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| Sheet                                                                                                                                         | 2 | of | 13                       | Attorney Docket Number | 20174C-000620US |

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| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                       | A26                      | US-5,434,049                             | 07-18-1995                     | Okuno et al.                                       |                                                                                 |
|                       | A27                      | US-5,525,464                             | 06-11-1996                     | Drmanac et al.                                     |                                                                                 |
|                       | A28                      | US-5,529,465                             | 06-25-1996                     | Zengerle et al.                                    |                                                                                 |
|                       | A29                      | US-5,593,130                             | 01-14-1997                     | Hansson et al.                                     |                                                                                 |
|                       | A30                      | US-5,642,015                             | 06-24-1997                     | Whitehead et al.                                   |                                                                                 |
|                       | A31                      | US-5,659,171                             | 08-19-1997                     | Young et al.                                       |                                                                                 |
|                       | A32                      | US-5,660,370                             | 08-26-1997                     | Webster                                            |                                                                                 |
|                       | A33                      | US-5,681,024                             | 10-28-1997                     | Lisec et al.                                       |                                                                                 |
|                       | A34                      | US-5,705,018                             | 01-06-1998                     | Hartley                                            |                                                                                 |
|                       | A35                      | US-5,759,014                             | 06-02-1998                     | Van Lintel                                         |                                                                                 |
|                       | A36                      | US-5,775,371                             | 07-07-1998                     | Pan et al.                                         |                                                                                 |
|                       | A37                      | US-5,788,468                             | 08-04-1998                     | Dewa et al.                                        |                                                                                 |
|                       | A38                      | US-5,807,522                             | 09-15-1998                     | Brown et al.                                       |                                                                                 |
|                       | A39                      | US-5,833,926                             | 11-10-1998                     | Wurzel et al.                                      |                                                                                 |
|                       | A40                      | US-5,836,750                             | 11-17-1998                     | Cabuz                                              |                                                                                 |
|                       | A41                      | US-5,842,787                             | 12-01-1998                     | Kopf-Sill et al.                                   |                                                                                 |
|                       | A42                      | US-5,863,502                             | 01-26-1999                     | Southgate et al.                                   |                                                                                 |
|                       | A43                      | US-5,863,801                             | 01-26-1999                     | Southgate et al.                                   |                                                                                 |
|                       | A44                      | US-5,875,817                             | 03-02-1999                     | Carter                                             |                                                                                 |
|                       | A45                      | US-5,876,187                             | 03-02-1999                     | Afromowitz                                         |                                                                                 |
|                       | A46                      | US-5,932,799                             | 08-03-1999                     | Moles                                              |                                                                                 |
|                       | A47                      | US-5,942,443                             | 08-24-1999                     | Parce et al.                                       |                                                                                 |
|                       | A48                      | US-6,007,309                             | 12-28-1999                     | Hartley                                            |                                                                                 |
|                       | A49                      | US-6,043,080                             | 03-28-2000                     | Lipshutz et al.                                    |                                                                                 |
|                       | A50                      | US-6,117,634                             | 09-12-2000                     | Langmore et al.                                    |                                                                                 |

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|                       |                          | Number Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                       | A51                      | US-6,123,769                             | 09-26-2000                     | Sanjoh                                             |                                                                                 |
|                       | A52                      | US-6,155,282                             | 12-05-2000                     | Zachary et al.                                     |                                                                                 |
|                       | A53                      | US-6,174,365 B1                          | 01-16-2001                     | Sanjoh                                             |                                                                                 |
|                       | A54                      | US-6,345,502 B1                          | 02-12-2002                     | Tai et al.                                         |                                                                                 |
|                       | A55                      | US-6,540,895 B2                          | 04-01-2003                     | Quake et al.                                       |                                                                                 |
|                       | A56                      | US-6,833,242 B2                          | 12-21-2004                     | Quake et al.                                       |                                                                                 |
|                       | A57                      | US-2005-0123947 A1                       | 06-09-2005                     | Quake et al.                                       |                                                                                 |

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| Sheet                                                                                                                                         | 4 | of | 13 | Attorney Docket Number   | 20174C-000620US       |

| FOREIGN PATENT DOCUMENTS |                          |                              |                     |                                      |                                |                                                                               |                                                                                 |                          |
|--------------------------|--------------------------|------------------------------|---------------------|--------------------------------------|--------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document      |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document                            | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup>           |
|                          |                          | Country<br>Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup> (if<br>known) |                                |                                                                               |                                                                                 |                          |
|                          | B1                       | EP                           | 0 592 094           | A2                                   | 04-13-1994                     | International Business<br>Machines Corporation                                |                                                                                 | <input type="checkbox"/> |
|                          | B2                       | EP                           | 0 703 364           | A1                                   | 03-27-1996                     | Fraunhofer-Gesellschaft<br>Zur Förderung Der<br>Angewandten Forschung<br>E.V. |                                                                                 | <input type="checkbox"/> |
|                          | B3                       | EP                           | 0 706 004           | A2                                   | 04-10-1996                     | Bayer Corporation                                                             |                                                                                 | <input type="checkbox"/> |
|                          | B4                       | EP                           | 0 778 351           | B1                                   | 06-11-1997                     | Hitachi, Ltd.                                                                 |                                                                                 | <input type="checkbox"/> |
|                          | B5                       | EP                           | 0 779 436           | A2                                   | 06-18-1997                     | Frank T. Hartley                                                              |                                                                                 | <input type="checkbox"/> |
|                          | B6                       | EP                           | 0 829 360           | A2                                   | 03-18-1998                     | Xerox Corporation                                                             |                                                                                 | <input type="checkbox"/> |
|                          | B7                       | EP                           | 0 845 603           | A1                                   | 06-03-1998                     | Xerox Corporation                                                             |                                                                                 | <input type="checkbox"/> |
|                          | B8                       | EP                           | 0 999 055           | A2                                   | 05-10-2000                     | Samsung Electronics Co.,<br>Ltd.                                              |                                                                                 | <input type="checkbox"/> |
|                          | B9                       | GB                           | 2 155 152           | A                                    | 09-18-1985                     | Allied Corporation                                                            |                                                                                 | <input type="checkbox"/> |
|                          | B10                      | GB                           | 2 264 296           | A                                    | 08-25-1993                     | Zortech International<br>Limited                                              |                                                                                 | <input type="checkbox"/> |
|                          | B11                      | GB                           | 2 308 460           | A                                    | 06-25-1997                     | Daewoo Electronics Co.,<br>Ltd.                                               |                                                                                 | <input type="checkbox"/> |
|                          | B12                      | WO                           | 95/33853            | A1                                   | 12-14-1995                     | University Of Tennessee<br>Research Corporation                               |                                                                                 | <input type="checkbox"/> |
|                          | B13                      | WO                           | 97/38300            | A1                                   | 10-16-1997                     | Soane Biosciences                                                             |                                                                                 | <input type="checkbox"/> |
|                          | B14                      | WO                           | 98/07069            | A1                                   | 02-19-1998                     | The Regents Of The<br>University Of Michigan                                  |                                                                                 | <input type="checkbox"/> |
|                          | B15                      | WO                           | 99/00655            | A2                                   | 01-07-1999                     | Immunetics                                                                    |                                                                                 | <input type="checkbox"/> |
|                          | B16                      | WO                           | 99/04361            | A1                                   | 01-28-1999                     | Diversified Scientific, Inc.                                                  |                                                                                 | <input type="checkbox"/> |
|                          | B17                      | WO                           | 99/17093            | A1                                   | 04-08-1999                     | The Regents Of The<br>University Of Michigan                                  |                                                                                 | <input type="checkbox"/> |

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|                                                                                                                                               |   |    |    |                          |                       |
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| Sheet                                                                                                                                         | 5 | of | 13 | Attorney Docket Number   | 20174C-000620US       |

| FOREIGN PATENT DOCUMENTS |                          |                              |                     |                                      |                                |                                                               |                                                                                 |                          |
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| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document      |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document            | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup>           |
|                          |                          | Country<br>Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup> (if<br>known) |                                |                                                               |                                                                                 |                          |
|                          | B18                      | WO                           | 99/36760            | A1                                   | 07-22-1999                     | Genetic Microsystems, Inc.                                    |                                                                                 | <input type="checkbox"/> |
|                          | B19                      | WO                           | 99/52633            | A1                                   | 10-21-1999                     | Luminal Technologies,<br>L.P.                                 |                                                                                 | <input type="checkbox"/> |
|                          | B20                      | WO                           | 00/00678            | A1                                   | 01-06-2000                     | University Of Washington                                      |                                                                                 | <input type="checkbox"/> |
|                          | B21                      | WO                           | 00/43748            | A1                                   | 07-27-2000                     | YSI Incorporated                                              |                                                                                 | <input type="checkbox"/> |
|                          | B22                      | WO                           | 00/60345            | A1                                   | 10-12-2000                     | University Of Alabama At<br>Birmingham Research<br>Foundation |                                                                                 | <input type="checkbox"/> |

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|                                                                                                                                               |   |    |    | Art Unit                 | 1753                  |
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| NON PATENT LITERATURE DOCUMENTS |                       |                                                                                                                                                                                                                                                                 |                          |  |
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|                                 | C1                    | "Chapter 9: Microfluidic Devices," Micromachined Transducers Sourcebook, pp. 779-882, 1998                                                                                                                                                                      | <input type="checkbox"/> |  |
|                                 | C2                    | AHN, CHONG H. et al., "Fluid Micropumps Based On Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), Amsterdam, Netherlands, pp. 408-412, January 29 - February 2, 1995                                  | <input type="checkbox"/> |  |
|                                 | C3                    | ANDERSON, ROLFE C. et al., "Microfluidic Biochemical Analysis System," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 477-480, June 16-19, 1997                                                    | <input type="checkbox"/> |  |
|                                 | C4                    | ARMANI, DENIZ et al., "Re-Configurable Fluid Circuits By PDMS Elastomer Micromachining," IEEE Int. Conf. Micro Electro Mech. Syst. Tech. Digest, Vol. 12, pp. 222-227, 1999                                                                                     | <input type="checkbox"/> |  |
|                                 | C5                    | BENARD, W. L. et al., "A Titanium-Nickel Shape-Memory Alloy Actuated Micropump," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 361-364, June 16-19, 1997                                          | <input type="checkbox"/> |  |
|                                 | C6                    | BLOOMSTEIN, T. M. et al., "Laser-Chemical Three-Dimensional Writing For Microelectromechanics And Application To Standard-Cell Microfluidics," J. Vac. Sci. Technol. B, Vol. 10, No. 6, pp. 2671-2674, November 1992                                            | <input type="checkbox"/> |  |
|                                 | C7                    | BRECHTEL, R. et al., "Control Of The Electroosmotic Flow By Metal-Salt-Containing Buffers," Journal of Chromatography A, Vol. 716, pp. 97-105, 1995                                                                                                             | <input type="checkbox"/> |  |
|                                 | C8                    | BRYZEK, JANUSZ et al., "Micromachines On The March", IEEE Spectrum, Vol. 31, No. 5, pp. 20-31, May 1994                                                                                                                                                         | <input type="checkbox"/> |  |
|                                 | C9                    | BUCHAILLOT, LIONEL et al., "Silicon Nitride Thin Films Young's Modulus Determination By An Optical Non Destructive Method," Jpn. J. Appl. Phys., Vol. 36, Part 2, No. 6B, pp. L794-L797, June 15, 1997                                                          | <input type="checkbox"/> |  |
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|                                 | C11                   | BURBAUM, JONATHAN J. et al., "New Technologies For High-Throughput Screening," Current Opinion in Chemical Biology, Vol. 1, pp. 72-78, 1997                                                                                                                     | <input type="checkbox"/> |  |
|                                 | C12                   | BUSCH, J. et al., "Methods For The Differentiation Of Microorganisms, Journal of Chromatography B, Vol. 722, pp. 263-278, 1999                                                                                                                                  | <input type="checkbox"/> |  |
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|                                 | C14                   | CHOU, HOU-PU et al., "Disposable Microdevices For DNA Analysis And Cell Sorting," Proc. Solid-State Sensor and Actuator Workshop, Hilton Head, South Carolina, pp. 11-14, June 8-11, 1998                                                                       | <input type="checkbox"/> |  |
|                                 | C15                   | CHOU, HOU-PU et al., "Microfabricated Devices For Sizing DNA And Sorting Cells," Micro- and Nanofabricated Structures and Devices for Biomedical Environmental Applications, Proceedings of SPIE, Vol. 3258, pp. 181-187, 1998                                  | <input type="checkbox"/> |  |

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|                                 | C16                   | DAVILA, HERMAN MORENO, "Molecular And Functional Diversity Of Voltage-Gated Calcium Channels," Annals of the New York Academy of Sciences, Vol. 868, pp. cover, 102-117, 1999                                                                                              | <input type="checkbox"/> |
|                                 | C17                   | DELAMARCHE, EMMANUEL et al., "Patterned Delivery Of Immunoglobulins To Surfaces Using Microfluidic Networks," Science, Vol. 276, pp. 779-781, May 2, 1997                                                                                                                  | <input type="checkbox"/> |
|                                 | C18                   | DUFFY, DAVID C. et al., "Patterning Electroluminescent Materials With Feature Sizes As Small As 5µm Using Elastomeric Membranes As Masks For Dry Lift-Off," Advanced Materials, Vol. 11, No. 7, pp. 546-552, 1999                                                          | <input type="checkbox"/> |
|                                 | C19                   | DUFFY, DAVID C. et al., "Rapid Prototyping Of Microfluidic Switches In Poly(dimethyl siloxane) And Their Actuation By Electro-Osmotic Flow," J. Micromech. Microeng., Vol. 9, pp. 211-217, 1999                                                                            | <input type="checkbox"/> |
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|                                 | C21                   | EFFENHAUSER, CARLO S. et al., "Integrated Capillary Electrophoresis On Flexible Silicone Microdevices: Analysis Of DNA Restriction Fragments And Detection Of Single DNA Molecules On Microchips," Analytical Chemistry, Vol. 69, No. 17, pp. 3451-3457, September 1, 1997 | <input type="checkbox"/> |
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|                                 | C23                   | FAHRENBERG, J. et al., "A Microvalve System Fabricated By Thermoplastic Molding," J. Micromech. Microeng., Vol. 5, pp. 169-171, 1995                                                                                                                                       | <input type="checkbox"/> |
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|                                 | C26                   | GALAMBOS, PAUL et al., "Electrical And Fluidic Packaging Of Surface Micromachined Electro-Microfluidic Devices," 8 pages, no date                                                                                                                                          | <input type="checkbox"/> |
|                                 | C27                   | GASS, V. et al., "Integrated Flow-Regulated Silicon Micropump," Sensors and Actuators A, Vol. 43, pp. 335-338, 1994                                                                                                                                                        | <input type="checkbox"/> |
|                                 | C28                   | GERLACH, TORSTEN, "Pumping Gases By A Silicon Micro Pump With Dynamic Passive Valves," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 357-360, June 16-19, 1997                                               | <input type="checkbox"/> |
|                                 | C29                   | GIUSTI, ALAN et al., "Application Of Deoxyribonucleic Acid (DNA) Polymorphisms To The Analysis Of DNA Recovered From Sperm," Journal of Forensic Sciences, Vol. 31, No. 2, pp. 409-417, April 1986                                                                         | <input type="checkbox"/> |
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|                                 | C31                   | GONZALEZ, JESUS E. et al., "Improved Indicators Of Cell Membrane Potential That Use Fluorescence Resonance Energy Transfer," Chemistry & Biology, Vol. 4, No. 4, pp. 269-277, April 1997                                                                           | <input type="checkbox"/> |
|                                 | C32                   | GRAVESEN, PETER et al., "Microfluidics-A Review," J. Micromech. Microeng., Vol. 3, pp. 168-192, 1993                                                                                                                                                               | <input type="checkbox"/> |
|                                 | C33                   | GUÉRIN, L. J. et al., "Simple And Low Cost Fabrication Of Embedded Micro-Channels By Using A New Thick-Film Photoplastic," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 1419-1422, June 18-19, 1997 | <input type="checkbox"/> |
|                                 | C34                   | HENION, JACK et al., "Capillary Electrophoresis/Mass Spectrometry: From One Meter Capillaries To Chip-Based Devices," 2 pages, 1999                                                                                                                                | <input type="checkbox"/> |
|                                 | C35                   | HERMANSON, Greg T. et al., "Chapter 2 - Activation Methods," Immobilized Affinity Ligand Techniques, Academic Press, pp. 2 cover pages, 51-136, 1992                                                                                                               | <input type="checkbox"/> |
|                                 | C36                   | HICKS, JENNIFER, "Genetics And Drug Discovery Dominate Microarray Research," R&D Magazine, pp. 28-33, February 1999                                                                                                                                                | <input type="checkbox"/> |
|                                 | C37                   | HORNBECK, LARRY J. et al., "Bistable Deformable Mirror Device," Spatial Light Modulators and Applications 1988 Technical Digest Series, Vol. 8, Postconference Edition, pp. cover, 107-110, June 15-17, 1988                                                       | <input type="checkbox"/> |
|                                 | C38                   | IKUTA, KOJI et al., "Three Dimensional Micro Integrated Fluid Systems (MIFS) Fabricated By Stereo Lithography," IEEE, pp. 1-6, 1994                                                                                                                                | <input type="checkbox"/> |
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|                                 | C40                   | JACOBSON, STEPHEN C. et al., "High-Speed Separations On A Microchip," Analytical Chemistry, Vol. 66, No. 7, pp. 1114-1118, April 1, 1994                                                                                                                           | <input type="checkbox"/> |
|                                 | C41                   | JEFFREYS, ALEC J. et al., "Hypervariable 'Minisatellite' Regions In Human DNA," Nature, Vol. 314, pp. 67-73, March 7, 1985                                                                                                                                         | <input type="checkbox"/> |
|                                 | C42                   | JERMAN, HAL, "Electrically-Activated, Normally-Closed Diaphragm Valves," Transducers '91, 1991 International Conference on Solid-State Sensors and Actuators, pp. cover, 1045-1048, 1991                                                                           | <input type="checkbox"/> |
|                                 | C43                   | JU, LI-YA et al., "Application Of Silver Staining To The Rapid Typing Of The Polymorphism Of HLA-DQ Alleles By Enzymatic Amplification and Allele-Specific Restriction Fragment Length Polymorphism," Electrophoresis, Vol. 12, pp. 270-273, 1991                  | <input type="checkbox"/> |
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|                                 | C45                   | KANTER, EVAN et al., "Analysis Of Restriction Fragment Length Polymorphisms In Deoxyribonucleic Acid (DNA) Recovered From Dried Bloodstains," Journal of Forensic Sciences, Vol. 31, No. 2, pp. 403-408, April 1986                                                                   | <input type="checkbox"/> |
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|                                 | C47                   | KELLER, RICHARD A. et al., "Single-Molecule Fluorescence Analysis In Solution," Applied Spectroscopy, Vol. 50, No. 7, pp. 12A-30A, July 1996                                                                                                                                          | <input type="checkbox"/> |
|                                 | C48                   | KHOO, MELVIN et al., "A Novel Micromachined Magnetic Membrane Microfluid Pump," pp. 1-4, no date                                                                                                                                                                                      | <input type="checkbox"/> |
|                                 | C49                   | KIM, ENOCH et al., "Micromolding In Capillaries: Applications In Materials Science," J. Am. Chem. Soc., Vol. 118, No. 24, pp. 5722-5731, 1996                                                                                                                                         | <input type="checkbox"/> |
|                                 | C50                   | KIM, ENOCH et al., "Polymer Microstructures Formed By Moulding In Capillaries," Nature, Vol. 376, pp. 581-584, August 17, 1995                                                                                                                                                        | <input type="checkbox"/> |
|                                 | C51                   | KUHN, LAWRENCE et al., "Silicon Charge Electrode Array For Ink Jet Printing," IEEE Transactions on Electron Devices, Vol. ED-25, No. 10, pp. 1257-1260, October 1978                                                                                                                  | <input type="checkbox"/> |
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|                                 | C54                   | LAMMERINK, T. S. J. et al., "Modular Concept For Fluid Handling Systems," IEEE, pp. 389-394, 1996                                                                                                                                                                                     | <input type="checkbox"/> |
|                                 | C55                   | LESSARD, GUILLAUME A. et al., "A Scanning Apertureless Fluorescence Microscope," 8 pages, no date                                                                                                                                                                                     | <input type="checkbox"/> |
|                                 | C56                   | LEVINE, LEANNA M. et al., "Measurement Of Specific Protease Activity Utilizing Fluorescence Polarization," Analytical Biochemistry, Vol. 247, pp. 83-88, 1997                                                                                                                         | <input type="checkbox"/> |
|                                 | C57                   | LIN, L. Y. et al., "Free-Space Micromachined Optical Switches For Optical Networking," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 5, No. 1, pp. 4-9, January 1999                                                                                                   | <input type="checkbox"/> |
|                                 | C58                   | LÖTTERS, J C et al., "The Mechanical Properties Of The Rubber Elastic Polymer Polydimethylsiloxane For Sensor Applications," J. Micromech. Microeng., Vol. 7, pp. 145-147, 1997                                                                                                       | <input type="checkbox"/> |
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|                                 | C60                   | MARSHALL, SID, "Fundamental Changes Ahead For Lab Instrumentation," R&D Magazine, 5 pages, February 1999                                                                                                                                                        | <input type="checkbox"/> |  |
|                                 | C61                   | MARSILI, RAY, "Lab-On-A-Chip Poised To Revolutionize Sample Prep," R&D Magazine, 5 pages, February 1999                                                                                                                                                         | <input type="checkbox"/> |  |
|                                 | C62                   | MAULE, JOHN, "Pulsed-Field Gel Electrophoresis," Molecular Biotechnology, Vol. 9, pp. 107-126, 1998                                                                                                                                                             | <input type="checkbox"/> |  |
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|                                 | C72                   | RAPP, R. et al., "LIGA Micropump For Gases And Liquids," Sensors and Actuators A, Vol. 40, pp. 57-61, January 1994                                                                                                                                              | <input type="checkbox"/> |  |
|                                 | C73                   | ROUHI, MAUREEN, "Sizing, Sorting DNA One Piece At A Time," C&EN, pp. 5-6, January 11, 1999                                                                                                                                                                      | <input type="checkbox"/> |  |
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|                                 | C75                   | SAMAD, AKHTAR et al., "Optical Mapping: A Novel, Single-Molecule Approach To Genomic Analysis," Genome Research, pp. 1-4, 1995                                                                                                                                  | <input type="checkbox"/> |  |
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|                                 | C77                   | SANJOH, AKIRA et al., "Spatiotemporal Protein Crystal Growth Studies Using Microfluidic Silicon Devices," Journal of Crystal Growth, Vol. 196, pp. 691-702, 1999                                                                                                | <input type="checkbox"/> |  |
|                                 | C78                   | SCHUELLER, OLIVIER J. A. et al., "Fabrication Of Glassy Carbon Microstructures By Soft Lithography," Sensors and Actuators A, Vol. 72, pp. 126-139, 1999                                                                                                        | <input type="checkbox"/> |  |
|                                 | C79                   | SCHWARTZ, DAVID C. et al., "Optical Mapping Approaches To Molecular Genomics," Current Opinion in Biotechnology, Vol. 8, pp. 70-74, 1997                                                                                                                        | <input type="checkbox"/> |  |
|                                 | C80                   | SEETHALA, RAMAKRISHNA et al., "A Fluorescence Polarization Competition Immunoassay For Tyrosine Kinases," Analytical Biochemistry, Vol. 255, pp. 257-262, 1998                                                                                                  | <input type="checkbox"/> |  |
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|                                 | C87                   | VAN DE POL, F.C.M. et al., "A Thermo-Pneumatic Actuation Principle For A Microminiature Pump And Other Micromechanical Devices," Sensors and Actuators, Vol. 17, Nos. 1-2, pp. 139-143, May 3, 1989                                                             | <input type="checkbox"/> |  |
|                                 | C88                   | VAN DE POL, F.C.M. et al., "Micro Liquid Handling Devices - A Review," Micro Systems Technologies, Vol. 90, pp. 799-805, 1990                                                                                                                                   | <input type="checkbox"/> |  |
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|                                 | C90                   | VAN DILLA, MARVIN A. et al., "Chapter 2 - Introduction And Resume Of Flow Cytometry And Sorting," Flow Cytometry and Sorting, John Wiley & Sons, pp. 5 cover pages and 11-37, 1979                                                                              | <input type="checkbox"/> |  |
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|                                 | C92                   | VIEIDER, CHRISTIAN et al., "A Pneumatically Actuated Micro Valve With A Silicon Rubber Membrane For Integration With Fluid Handling Systems," Transducers '95, 8th International Conference on Solid-State Sensors and Actuators and Eurosensors IX, Stockholm, Sweden, pp. 284-286, June 25-29, 1995 | <input type="checkbox"/> |
|                                 | C93                   | VOLKMUTH, W. D. et al., "DNA Electrodiffusion In A 2D Array Of Posts," Physical Review Letters, Vol. 72, No. 13, pp. 2117-2120, March 28, 1994                                                                                                                                                        | <input type="checkbox"/> |
|                                 | C94                   | VOLKMUTH, W. D. et al., "DNA Electrophoresis In Microlithographic Arrays," Nature, Vol. 358, pp. 600-602, August 13, 1992                                                                                                                                                                             | <input type="checkbox"/> |
|                                 | C95                   | WASHIZU, MASAO et al., "Molecular Dielectrophoresis Of Biopolymers," IEEE Transactions on Industry Applications, Vol. 30, No. 4, pp. 835-843, July 1994                                                                                                                                               | <input type="checkbox"/> |
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|                                 | C97                   | XIA, YOUNAN et al., "Complex Optical Surfaces Formed By Replica Molding Against Elastomeric Masters," Science, Vol. 273, pp. 347-349, July 19, 1996                                                                                                                                                   | <input type="checkbox"/> |
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|                                 | C102                  | YANG, XING et al., "A Low Power MEMS Silicone/Parylene Valve," Solid-State Sensor and Actuator Workshop, Hilton Head Island, South Carolina, 4 pages, June 7-11, 1998                                                                                                                                 | <input type="checkbox"/> |
|                                 | C103                  | YANG, XING et al., "A MEMS Thermopneumatic Silicone Membrane Valve," IEEE 10th Annual International Workshop of Micro Electro Mechanical Systems, Nagoya, Japan, pp. cover, 114-118, January 26-30, 1997                                                                                              | <input type="checkbox"/> |
|                                 | C104                  | YAZDI, NAVID et al., "Micromachined Inertial Sensors," Proceedings of IEEE, Vol. 86, No. 8, pp. 1640-1659, August 1998                                                                                                                                                                                | <input type="checkbox"/> |
|                                 | C105                  | YOUNG, A. M. et al., "Contoured Elastic-Membrane Microvalves For Microfluidic Network Integration," Journal of Biomechanical Engineering, Vol. 121, pp. 2-6, February 1999                                                                                                                            | <input type="checkbox"/> |
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|                                 | C107                  | ZENGERLE, R. et al., "Performance Simulation Of Microminiaturized Membrane Pumps," 7th International Conference on Solid-State Sensors and Actuators, Yokohama, Japan, pp. 2 cover pages, 106-109, June 7-10, 1993                                              | <input type="checkbox"/> |

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